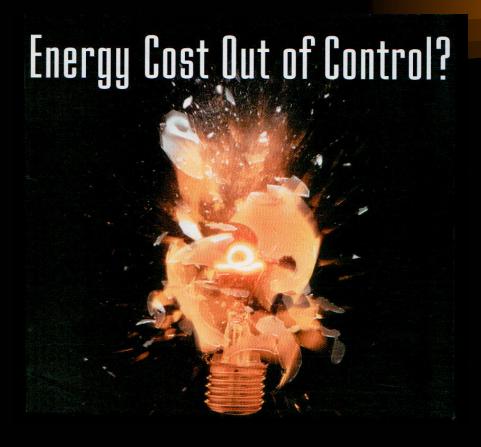
The Department of Human Services Energy Management Program



The DHS Energy Office Commitment

• To efficiently and economically manage DHS utility resources without compromising the environment, productivity or health compliance standards of our health institutions.

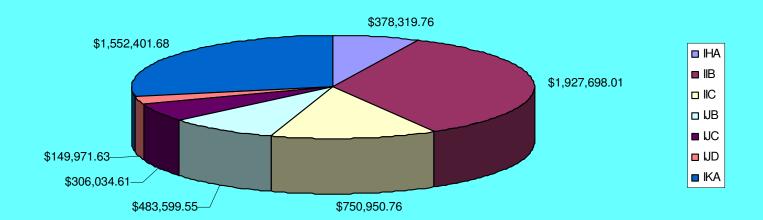
We effectively manage DHS utilities to produce positive financial results!

- Web Based Utility Database
- Utility Management Electric, Gas, Coal, Water/Sewage to be expanded to renewables, transportation, new and retrofit construction under the LEED program.
- Building Automation Systems
- Four Phase Energy Retrofit Performance Contracting

Utility Database Development and Management

- WEB based Energy Database Bill Processing
- Set up accounts
- Populate Database
- Process Utilities
- Develop energy profiles
- Provide reports
- Track Savings and Baselines
- Pay Bills Electronically
- Scanning and bill record keeping

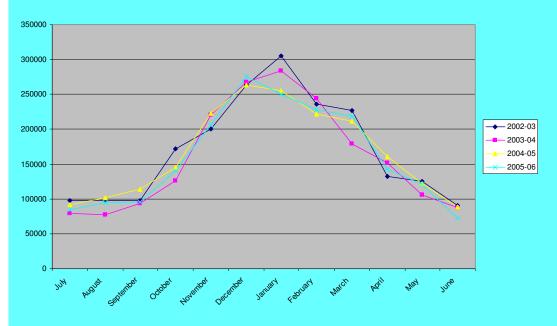




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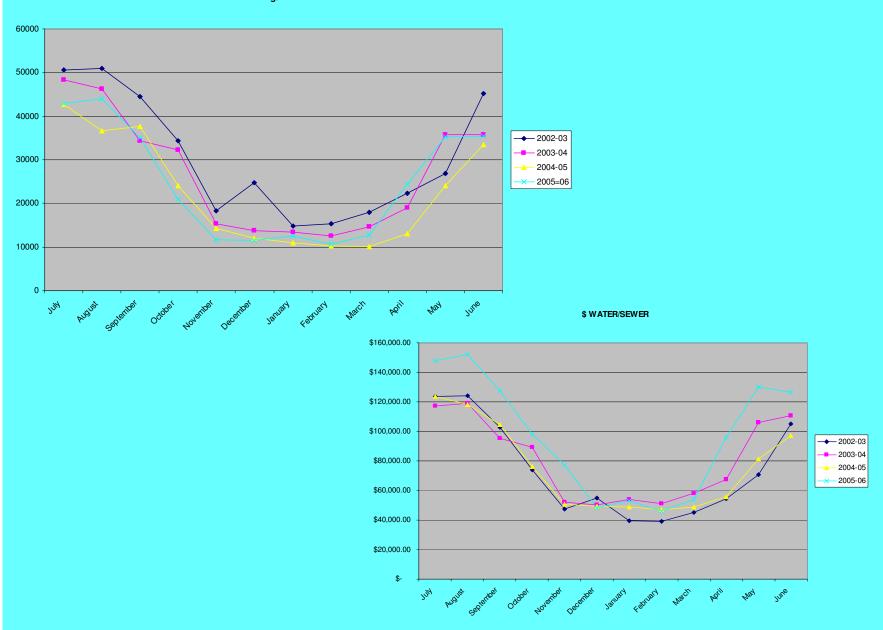




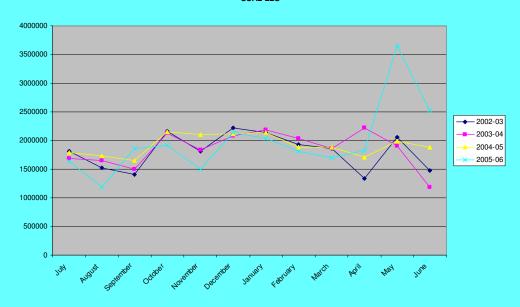
\$ GAS







COAL-LBS



\$ COAL



DHS develops and manages transport gas contracts watching the NYMEX and Henry HUB gas futures to determine optimal price locks for all DHS major facilities saving substantial dollars over commercial gas rates.



DHS Utility Management

- Utility Rate Analysis _ Saving \$156,000
- Electric, Gas, Water, Sewage, Irrigation, Waste treatment Savings \$ 45,000
- Utility Negotiations- Water, Gas, Electric
- DSM Ratchets Demand Control
- Transport Gas purchases \$300,000 per year
- Rebate Programs \$74,000 (Xcel), Fed Grants Over \$4,000,000 Phase I Nursing homes.
- Load Shifting. Backup generation, EMS

DHS Building Automation Systems

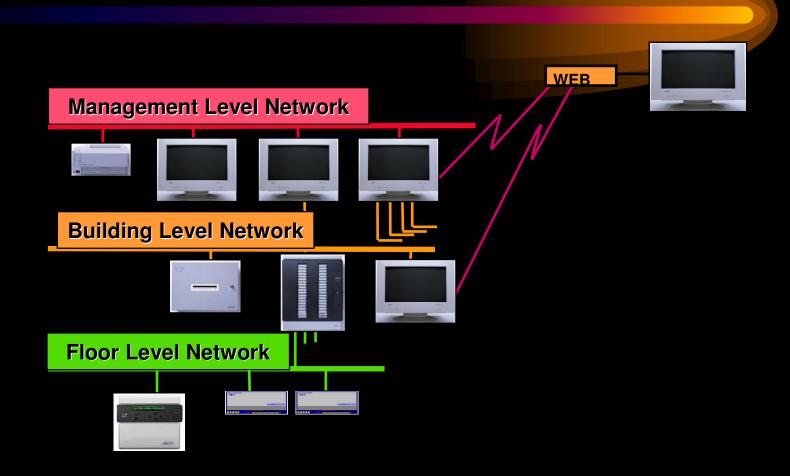
- We specified WEB based BAS
- DHS developed controls standards
- Project management
- Manage Punch Lists
- Coordinate Test and Balance
- Review control programs and graphics
- Review maintenance programs, O&M, training for new and retrofit mechanical systems

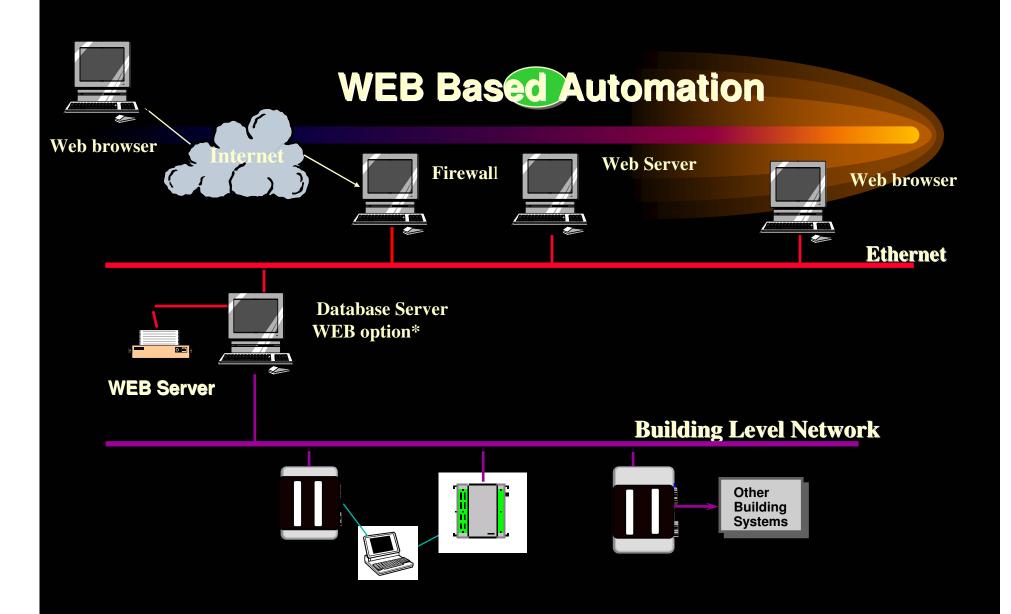
DHS Technicians can control and monitor our DHS facilities statewide via our central workstations or laptops via the WEB based Building Automation System

- Do anything from your PC or Laptop
- Universal access & privileges
- Scheduler

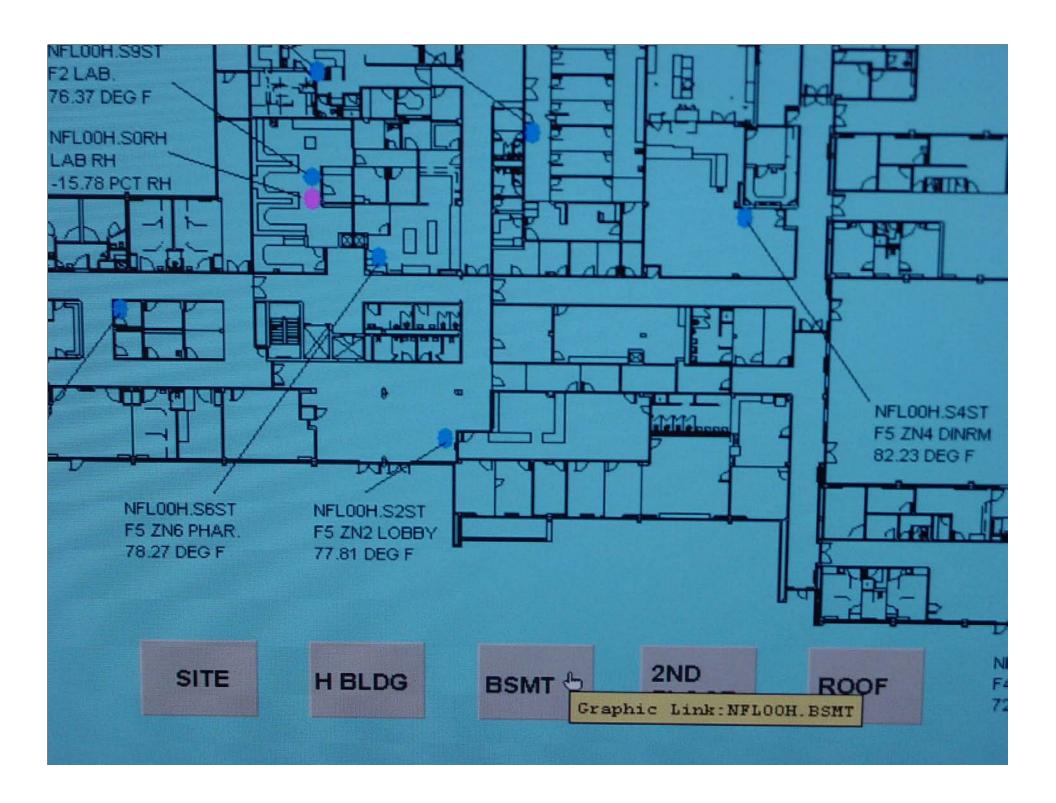


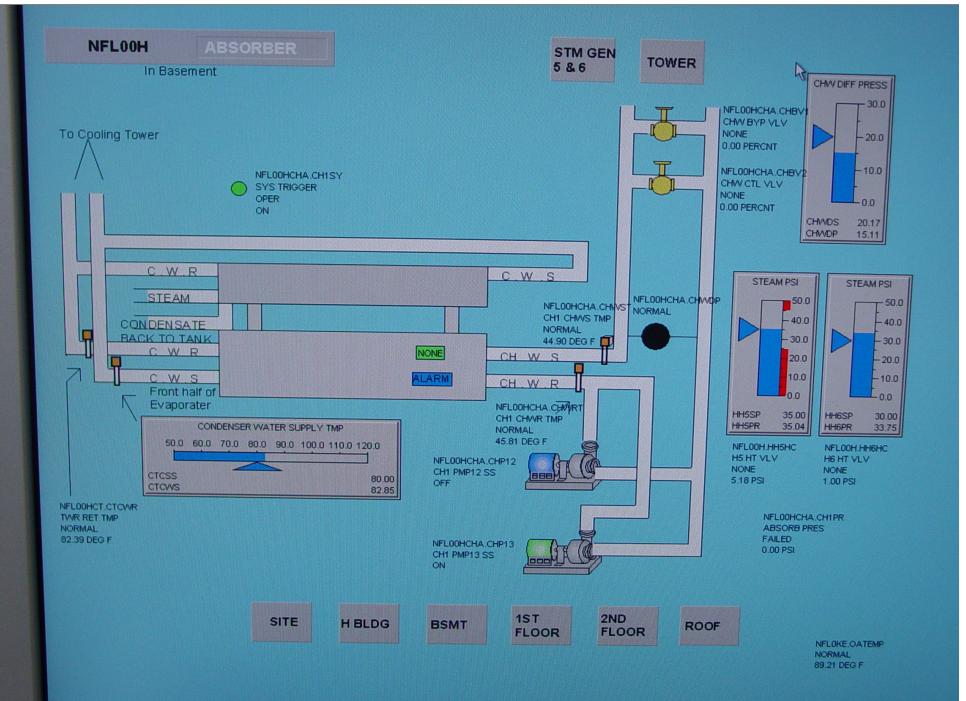
DHS project manages and specifies building energy management systems that optimize energy usage and result in lower maintenance costs and reduce response time on equipment failure.





NORTH WEST Adams Youth Services Center Sunada Lear ing Center Fitzsimons State Veterans Nursing Home Wheat Ridge Regional Center Lookout Mountain Youth Services/Center 9 Rifle State Veterans Nursing Home Human Services Building Ridge View Youth Services Center puth Services Center o Mental Walth Institute at Fort Logan o Marvin W. Foote Youth Services Center Grand Junction Regional Center Spring Creek Youth Services Center Zebulon Pike Youth Services Center Florence State Veterans Pueblo Regional Center Nursing Home Pueblo Youth Services Centero ▲ Mental Health Institute at Pueblo Walsenberg State Veterans throp Park Youth Camp Nursing Home SOUTH Homelake State Veterans Center Trinidad State and Veterans Nursing Home



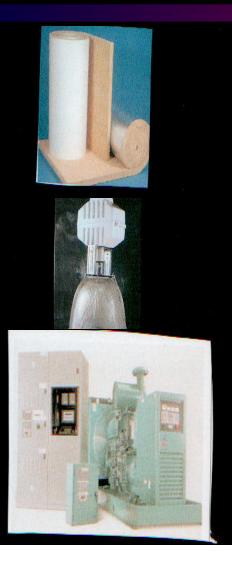


Guaranteed Performance DHS Contracting Services

- Audits and Baseline development
- Guaranteed Retrofit Performance Contract
- Contract Management
- Engineering Management
- Construction Management
- Measurement and Verification
- Baseline tracking

DHS Manages Performance Based Contracts

Millions of dollars of facility improvements have been realized and paid through energy savings. Performance contracting provides DHS with guaranteed savings that are applied to facility improvements without any capital outlay by the State! Think about it, "you can give your money to the utility or use the savings and buy new equipment". Energy retrofit improvements such as lighting, heating, ventilation, air-conditioning, building automation systems and other facility improvements are currently being implemented throughout the state.





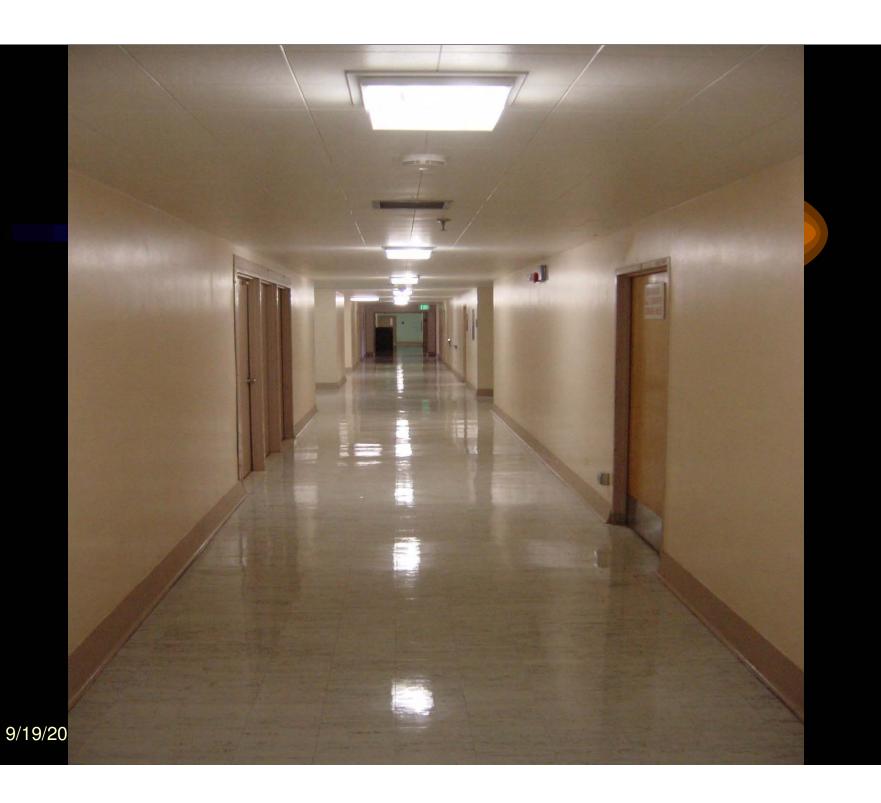








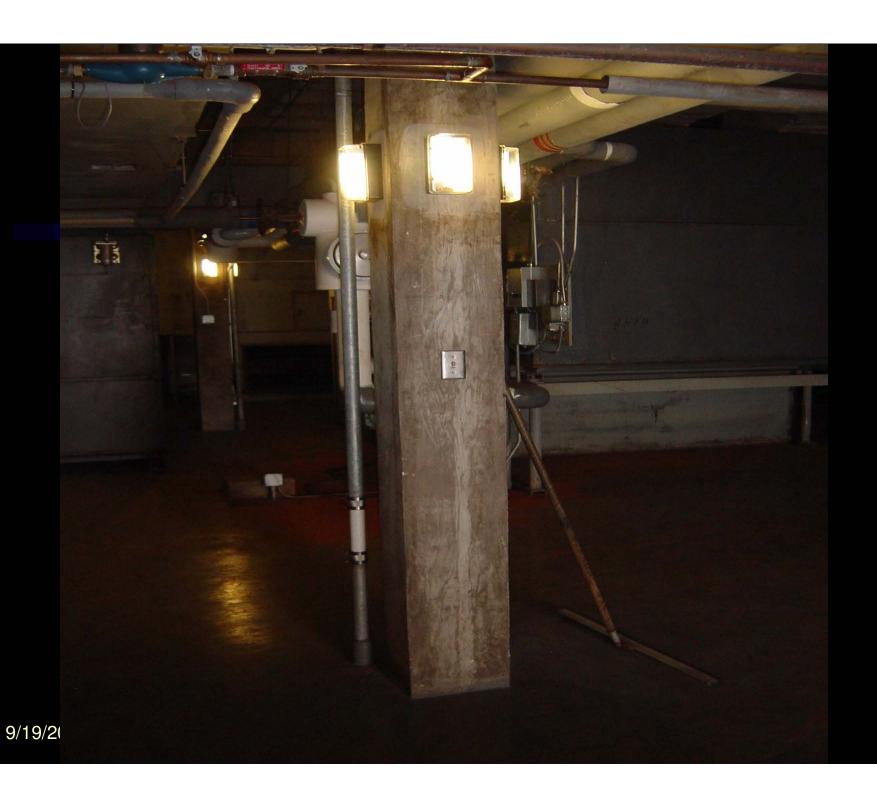






















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